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(71) Applicant: **HITACHI LTD**

(72) Inventor: **FUJINO SHUJI**

**SAITO MASATO**

**KAGEI TAKASHI**

**TANAKA YASUHIRO**

**NAKASAKI SHINICHI**

**OBA YOSHINORI**

### (54) HIERARCHICAL NETWORK MANAGEMENT SYSTEM

(57) Abstract:

**PURPOSE:** To hierarchically manage a large scale communication network by periodically collecting and reporting management objects through an agent belonging to a management range of its own system.

**CONSTITUTION:** Management objects are managed by using a simple network management protocol(SNMP) and an internet control message protocol(ICMP) based upon internet activities board(IAB) management reference between a sub-manager 10 connected to a local area network(LAN) and agents 20a-1, 20a-2. Through the agents 20a-1, 20a-2 belonging to its own management range, management object in the management range are periodically collected and the collected result is reported to an integrated manager. The collected information is stored by a management information base(MIB) format.

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